

ARZAMASOV, B.N.

AID Nr. 974-14 22 May

DIFFUSION COATINGS AND REFRactory COATINGS (USSR)

Metallovedeniye i termicheskaya obrabotka metallov, no. 3, Mar 1963, 59-61.  
S/129/63/000/003/009/009

The Second Seminar on Diffusion Coatings of Metals and Refractory Compound Coatings on Metallic and Nonmetallic Materials was held 10-12 October 1962 in Odessa. B. N. Arzamasov (Moscow Higher Technical School imeni Bauman) reported on Si-coatings on Mo, W, and Ta and Al-coatings on Mo and W produced by a circulation method in which Si and Al chlorides and gaseous HCl are circulated, i.e., reused. This method improves the quality of coatings and the efficiency and economy of the process. G. N. Dubinin (Moscow Aviation Institute) spoke on the electrical and magnetic properties of "10" and "410" steels diffusion coated with Cr, Mo, W, Si, and Ti, and of copper and aluminum diffusion coated with Ti, Cr, Si, and B. A. P. Epik discussed C and B diffusion coatings on Ti, Zr, Nb, and Ta, the kinetics of formation of carbide

Card 1/2

AID Nr. 974-14 22 May

DIFFUSION COATINGS [Cont'd]

S/129/63/000/003/009/009

and boride layers, the structure and phase composition of these layers, and some properties for different conditions of coating. V. I. Arkharov spoke on the crystallography of phase transformations and reactions. N. V. Titov (Odessa Marine Academy) suggested a method for the approximate calculation of the deformation of a metal during its impregnation with other metals. N. F. Lashko discussed Si diffusion coatings on Nb and Nb-alloys. M. I. Simonova reported on cation distribution in oxides with spinel structure, which are formed on some alloy steels. These data are of great importance for the investigation of diffusion in oxide systems.

[DV]

Card 2/2

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

PROKOSHKIN, D.A.; ARZAMASOV, B.N.; Prinimal uchastiye V.A. Brostram

Investigating the system chromium - tungsten by the thermal diffusion method. Issl. po zharoproch. splav. 10:225-228 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ACCESSION NR: AT4013956

S/2659/63/010/000/0225/0228

AUTHOR: Prokoshkin, D. A.; Arzamasov, B. N.

TITLE: Investigation of chromium-tungsten alloys by the thermal diffusion method

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam, v. 10, 1963, 225-228.

TOPIC TAGS: chromium, tungsten, chromium tungsten alloy, constitutional diagram, thermal-diffusion process

ABSTRACT: There are differences of opinion about many high-temperature metal systems. In particular, there are contradictory data on chromium-tungsten alloys. The authors together with V. A. Brostrem, who participated in the experimental part of the work, used the thermal diffusion method for specifying the constitutional diagram of this alloy. The diagram allows one to determine the different phases of the system during diffusive saturation under isothermal conditions. The author shows that W. Trzebiatowski, M. Ploszek,

Card 1/2

ACCESSION NR: AT4013966

and J. Lobzowski (X-ray analysis of chromium-molybdenum and chromium-tungsten alloys. Anal. Chem., 19, 2, 1941) did not determine one of the phases of chromium-plated tungsten, as the X-ray analysis was performed on deformed powders of the Cr-W alloy. On the basis of tests with the Cr-W alloy it was possible to assume that annealing of Cr-W alloy powders prior to X-ray analysis allows one to detect the CrW<sub>3</sub> phase, which the authors found by using the thermal diffusion method. Orig. art. has: 4 figures.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Feb84

ENCL: 00

SUB CODE: MM

NO REF SOV: 003

OTHER: 001

Cord 2/2

L 5456-66 EWT(1)/EPA(s)-2/EWT(m)/EWP(w)/EWF(i)/EFF(n)-2/EPA(w)-2/T/EWP(t)/  
EWP(b)/EWA(m)-2/EWA(c) IJP(c) JD/JG/OS SOURCE CODE: UR/0000/65/000/000/0038/0041  
ACC NR: AT5024870

AUTHOR: Prokoshkin, D. A. Arzamasov, B. N.; Ryabchenko, Ye. V.

ORG: Institute of Problems of Material Science, AN UkrSSR (Institut problem materialo-  
vedeniya AN UkrSSR)

TITLE: Siliconizing refractory metals in a glow discharge

SOURCE: AN UkrSSR. Institut problem materialovedeniya. Diffuzionnyye pokrytiya na  
metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 38-44

TOPIC TAGS: refractory metal, metal siliconizing, glow discharge siliconizing,  
molybdenum siliconizing, tungsten siliconizing, niobium siliconizing, tantalum sili-  
conizing

ABSTRACT: Molybdenum, tungsten, niobium, and tantalum have been siliconized at 1000 to  
1200°C by glow discharge in a mixture of silicon tetrachloride vapor and hydrogen  
flowing at a pressure of 40 mm Hg and a rate of 0.5 l/min. The glow discharge starts  
at 500—700 v. The rate of siliconizing in a glow discharge depended on the pressure  
in the reaction chamber, the volume ratio and the rate of consumption of the silicon  
tetrachloride and hydrogen, and the reaction temperature and was significantly higher  
than that of conventional siliconizing in a gaseous medium. Molybdenum had a sili-  
conized layer 25  $\mu$  thick in 5 min, and a layer 67  $\mu$  thick in 40 min. Higher rates  
were also observed in tungsten, niobium, and tantalum. The siliconized coatings con-  
sisted basically of disilicides of the respective metals. Tungsten siliconized at

Card 1/2

09010731

L 5456-66

ACC NR: AT5024870

2

1000C for 30 min had a one-layer coating consisting of  $WSi_2$  with a hardness of 1865 dan/mm<sup>2</sup>. Niobium and tantalum had two-layer coatings, the outer layers consisting of  $NbSi_2$  and  $TaSi_2$ , respectively, and the inner layer having a lower silicon content. The inner layer of niobium had a hardness of 1125 dan/mm<sup>2</sup>. Molybdenum siliconized at 1000C for 40 min had a three-layer coating; the hardness of the outer and innermost layers was 1565 and 1350 dan/mm<sup>2</sup>, respectively. Molybdenum and tungsten disilicides had a tetragonal crystal lattice; niobium and tantalum had a hexagonal lattice. Siliconizing in a glow discharge can be done below the recrystallization temperature, which keeps the parts in the strengthened condition. The high efficiency of the process can be explained by the presence of an ionized medium and by the activated condition of the metal surface being siliconized. Orig. art. has: 4 figures. [MS]

SUB CODE: MM, EM / SUBM DATE: 06Aug65 / ORIG REF: 004 / OTH REF: 004 / ATD PRESS:  
4133

Card 2/2 Red

L 08421-67 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/M/NR/GD  
ACC NR: AT6034465 (N) SOURCE CODE: UR/0000/66/000/000/0276/0280

AUTHOR: Prokoshkin, D. A.; Arzamasov, B. N.; Ryabchenko, Ye. V.

ORG: none

TITLE: Investigation of molybdenum siliconizing in a glow discharge

SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye  
zharoprochnykh splavov (Properties and application of heat resistant  
alloys). Moscow, Izd-vo Nauka, 1966, 276-280

TOPIC TAGS: molybdenum, silicon, ~~siliconizing, molybdenum~~, ~~silicon coating, coating composition,~~  
~~oxidation resistance, metal surface impregnation~~, metal coating

ABSTRACT: The schematic and operation of a unit for siliconizing metals  
with glow-discharge heating are described. The experiments were made on  
pure molybdenum wire, 0.3 mm in diameter, in a mixture of silicon-tetra-  
chloride vapor and dry commercial-grade hydrogen. The design of the  
unit also permitted electric resistance heating of the wire. The partial  
pressure of silicon tetrachloride vapor and hydrogen was 30 and 10 mm Hg  
respectively. The temperature of siliconizing with glow-discharge heating  
was 1100°C and with resistance heating--1300°C. In both cases, heating  
the wire to the siliconizing temperature lasted 0.5 min, the holding

Card 1/2

L 08421-67  
ACC NR: AT6034465

2

time at this temperature was 5 min, and the time of cooling to 200C was about 1 min. Regardless of the method of heating, no molybdenum siliconizing was observed in the absence of hydrogen in the ambient medium, but a silicide coating was readily formed on the wire surface when a mixture of silicon tetrachloride vapor and hydrogen was used. The weight and size of the test specimens also increased. The silicide coating consisted of an outer MoSi<sub>2</sub> phase, an inner Mo<sub>3</sub>Si phase, and a thin layer, probably of the Mo<sub>5</sub>Si<sub>3</sub> phase, between them. In siliconizing with glow-discharge heating, the silicon impregnation proceeded much more rapidly than with other methods, particularly at lower temperatures. Thus, siliconizing at 800C with glow-discharge heating and at 1200C with resistance heating produced silicide coatings of the same thickness. Regardless of the method of heating, the reaction products were the same as was also the oxidation resistance of the formed coatings, continuously or cyclically heated in air at 1500C. The maximum number of heating cycles sustained by coatings 40-μ thick was 330. Tungsten, niobium, tantalum and a number of other metals were also successfully siliconized with glow-discharge heating. Orig. art. has: 3 figures.

SUB CODE: 11/ SUBM DATE: 10Jun66/ OTH REF: 002/ ATDPPRESS: 5103  
13/

Card 2/2 ls

ACC NR: AP7005233

(A)

SOURCE CODE: UR/0145/66/000/009/0116/0119

AUTHOR: Arzamasov, B. N. (Candidate of technical sciences, Lecturer)

ORG: None

TITLE: Thermodynamic analysis of the circulation method for producing coatings

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1966, 116-119

TOPIC TAGS: thermodynamic analysis, metal coating, thermal diffusion, halide, metal diffusion plating

ABSTRACT: The author discusses a new circulation method for producing thermal diffusion coatings from a gaseous medium. The method is based on mass transfer in a closed gas line with systematic regeneration of the gas-carrier and circulation by a blower. This mass transfer is based on reactions which take place at different temperatures:  $EX_n + E \rightarrow EX_m$  at  $T_1$  and  $EX_m \rightarrow E + EX_n$  at  $T_2$  where  $n > m$ , X are halogens (excepting astatine), E are the coating elements. A high-temperature chamber is filled with the element to be used for the coating and the parts to be treated are placed in a low-temperature chamber. The circulation unit is then filled with the higher-valence halogenide of the given element and heated to predetermined temperatures. The coating element is precipitated and absorbed by the metal to be coated. The thermodynamic and chemical characteristics of the process are discussed using examples based on aluminum and silicon coatings of refractory metals in various gaseous media. The thermodynamic cri-

Card 1/2

UDC: 621.793

ACC NR: AP7005233

terion for use of the given method is the possibility for reactions of formation and disproportionation of lower-valence halogenides. This indicates the theoretical possibility of using this method for producing boron, beryllium, titanium and vanadium coatings in addition to aluminum and silicon. The article was presented for publication by Doctor of technical sciences D. A. Prokoshkin, Professor at the Moscow Technical College im. N. E. Bauman. Orig. art. has: 5 figures, 10 formulas.

SUB CODE: 11/ SUBM DATE: 21Apr66/ ORIG REF: 04

Card 2/2

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASOV, I.T.

New species of ixodid ticks in White Russia. Izv. AN BSSR no.6:169  
N-D '55.  
(White Russia--Ticks) (MLRA 9:6)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

USSR/Zooparasitology. Ticks and Insects - Vectors of Causal Organisms. Ticks.

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104095

Author : Arzamasov, I. T.

Inst : Institute of Biology of the Academy of Sciences  
BSSR

Title : The Host Cycle of Ixodial Ticks.

Orig. Pub : Byul. In-ta biol. AN BSSR, No 2, 1956 (1957), 253-258

Abstract: In the Beloveshskaya Pushcha National Forest and in a number of regions of Belorussia 3044 animals belonging to 79 species, 7 holes and 44 nests of birds and squirrels were examined for ixodial tick infectivity. Thereby, 23,774 specimens of ixodial ticks of 5 species were collected - Ixodes ricinus, I. crenulatus, I. trianguliceps, I. apronophorus, Dermacentor pictus. Each of the developmental phases of a certain species of tick has its principal and secondary hosts

Card 1/2

USSR/Zooparasitology. Ticks and Insects - Vectors of G  
Causal Organisms. Ticks.

Abs Jour: Ref. Zhur. - Biol., No 23, 1958, 104095

(the author makes the division into these groups on the basis of the indices of numbers of ticks per animal without taking into consideration the census of the hosts themselves).

I. ricinus and I. trianguliceps parasitize chiefly animals which inhabit forest and brushwood areas, while D. pictus is most often encountered on animals living in open areas. Wild vertebrates which are associated with human villages and cultivated fields are not infected by ticks. The same may be said of birds and bats, which are not associated with grass in their activity. - L. V. Babenko

Card 2/2

ARZAMASOV, I. T., Cand Biol Sci -- (diss) "Ixodian ticks of the  
BSSR." Minsk, 1957. 18 pp (Aced Sci Belorussian SSR, Inst  
of Biology), 100 copies (KL, 1-58, 116)

- 30 -

USSR/Zooparasitology - Mites and Insects as Disease Vectors.

G-3

Abs Jour : Ref Zhur - Biol., No 10, 1958, 43428

Author : Arzamasov, I.T.

Inst :

Title : The Species Composition and Prevalence of Ixodic Ticks in Byelorussia.

Orig Pub : Vestsi AN BSSR, Ser. biyal. n.; Izv. AN BSSR, ser. biol. n., 1957, No 1, 99-111.

Abstract : For the first time in Byelorussia there were found Ixodes apronophorus Sch., I. crenulatus Koch, I. trianguliceps Bir.; new data are given on local distribution and the circle of hosts of I. ricinus, Dermacentor marginatus, D. pictus.

Card 1/1

- 10 -

ARZAMASOV, I.T.

Relation between the decrease of the number of murine rodents and the  
intensity of their infestation by the larvae of *Ixodes ricinus* L.  
Biul. Inst. biol. AN BSSR no.2:250-252 '57. (MIRA 11:2)  
(Byaloveshska Pushcha--Ticks) (Parasites--Mice)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASOV, I.T.

Host cycle of ixodid ticks. Biul. Inst. biol. AN BSSR no.2:253-258  
'57.  
(White Russia--Ticks) (MIRA 11:2)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASOV, I.T.

Development of the preimaginal phases of *Ixodes ricinus* L.  
and *Dermacentor pictus* Nerm. Biul. Inst. biol. AN BSSR no.3:  
254-258 '58.

(TICKS)

(MIRA 13:7)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASOV, I. T.

"Fauna of Ixodes Ticks in [REDACTED] SSR."  
B

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Biology, AS, [REDACTED] SSR, Minsk  
B

ARZAMASOV, I.T.; SERZHANIN, I.N., prof., red.; ZAITSEVA, T., red.izd-va;  
SHIROKOVA, G., tekhn.red,

[Ixodidae] Iksodovye kleshchi. Izd-vo Akad.nauk BSSR, 1961.  
131 p. (Ticks) (MIRA 14:3)

ARZAMASOV, I.T.; KURSKOV, A.N.

Extoparasites of bats in White Russia. Dokl. AN BSSR 6 no.3:202-  
203 Mr '62. (MIRA 15:3)

1. Otdel zoologii i parazitologii AN BSSR. Predstavлено академиком  
AN BSSR Kh.S. Goreglyadom.

(White Russia--Insects, Injurious and beneficial)  
(Parasites--Bats)

ARZAMASOV, I.T. [Arzamasov, I.T.]

Gamasid mites of rodents in the Byalovezhskaya Pushcha. Vestsi  
AN BSSR.Ser.bial.nav. no.3:124-132 '62. (MIRA 15:12)  
(BYALOVEZHSKA PUSHCHA--PARASITES--RODENTIA)  
(BYALOVEZHSKA PUSHCHA--MITES)

SERZHANTIN, I.N., otv. red.; ARZAMASOV, I.T., red.; DOLBIK, M.S.,  
red.; MERZHEYEVSKAYA, O.I., red.; NIKITENKO, M.F., red.

[Abstracts of reports of the Second Zoological Conference of the White Russian S.S.R.] Tezisy dokladov Zoologicheskoi konferentsii Belorusskoi SSR. Minsk, Izdvo AN BSSR, 1962. 315 p. (NIRA 18:1)

1. Zoologicheskaya konferentsiya Belorusskoy SSR. 2d, Minsk, 1962. 2. Otdel zoologii i parazitologii AN BSSR, gorod Minsk (for Nikitenko).

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

CHIKILEVSKAYA, I.V. [Chykileuskaina, I.V.]; ARZAMASOV, I.T. [Arzamasov, I.T.]

Distribution of gamasid mites in the burrows of rodents of  
White Russian Polesye. Vestsii AN BSSR, Ser. biol. nav. no.3;  
116-120 '63  
(MIRA 17:7)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASOV, I.T.

Ectoparasites of the water vole (*Arvicola terrestris L.*) and the muskrat  
(*Ondatra zibethica L.*) in White Russia. Dokl. AN BSSR 7 no.1:66-68 Ja  
63. (MIRA 17:1)

1. Otdel zoologii i parazitologii AN BSSR. Predstavлено академиком AN  
BSSR V.A. Leonovym.

ARZAMASOV, I.T.

Ectoparasites of the common shrew *Neomys fodiens* Schreb. in  
White Russia. Dokl. AN BSSR 9 no.3:211-212 Mr 1965.

(MIRA 18:6)

I. Otdel zoologii i parazitologii AN BSSR.

ARZAMASOV, I.T.

Ectoparasites of the hedgehog (*Erinaceus europeus L.*) and  
pygmy shrew (*Sorex minutus L.*) in White Russia. Vestsi  
AN BSSR. Ser. biol. nav. no.2:119-120 '65.

(MIRA 18:12)

ARZAMASOV, I.T.

Ectoparasites of the common mole (*Talpa europaea L.*) in  
White Russia. Dokl. AN BSSR 9 no. 11:777-779 N '65  
(MIRA 19:1)

1. Otdel. zoologii i parazitologii AN BSSR.

ACC NR: AP7001154 (A,N) SOURCE CODE: UR/0439/66/045/006/0830/0835

AUTHOR: Arzamasov, I. T.; Merkusheva, I. V.; Petrovskiy, Yu. T.;  
Dyl'ko, N. I.

ORG: Division of Zoology and Parasitology, Academy of Sciences, Belo-  
russian SSR, Minsk (Otdel zoologii i parazitologii Akademii nauk Belo-  
russkoy SSR)

TITLE: Parasites of squirrels in Belorussia

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 6, 1966, 830-835

TOPIC TAGS: zoology, parasitology, <sup>ANIMAL</sup> parasite, arthropod, helminth,  
protozoa, rickettsia

ABSTRACT: Data on parasites of the grey squirrel were collected in the  
Belorussian SSR between 1963 and 1964. The specificity, distribution,  
and dependence of 46 parasite species on the living conditions of the  
host were analyzed. In all, 39 arthropod, 3 helminth, 3 protozoan,  
and 1 rickettsial species were found in arboreal squirrels, while in  
ground squirrels and burrowing squirrels 14 arthropod, 6 helminth,  
1 rickettsial, and 1 microbial parasite species were found. [LP]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 016/ OTH REF: 002 [WA-50; CBE No. 14]

Card 1/1

UDC: 591.69-932.22(476)

KOGAN, Koppel' Borisovich; TAMARIN, Iosif Isayevich; ARZAVASOV, N.A.  
Otvetstvennyy redaktor; NADEINSKAYA, A.A., tekhnicheskly redaktor

[BV and BVu boring machines; a brief description of their  
construction and results of industrial testing] Burovye stanki  
BV i BVu; kratkoе opisanie konstruktsii i rezul'tatov promyshlen-  
nykh ispytaniy. Moskva, Ugletekhzdat, 1957. 30 p. (MIRA 10:7)  
(Boring machinery)

*Arzamasov, N.A.*

AL'SHITS, Yakov Isaakovich, dots.; KOSTYUKOVICH, Fedor Vasil'yevich;  
ARZAMASOV, N.A., otvetstvennyy red.; BKKER, O.G., tekhn.red.;  
ALADOVA, Ye.I., tekhn.red.

[Apparatus and methods used in research on machines for excavating  
coal] Apparatura i metody issledovaniia mashin dlia vyemki uglia.  
Moskva, Ugletekhnikdat, 1957. 95 p.  
(MIRA 11:2)

1. Donetskij industrial'nyy institut (for Al'shits)  
(Coal mining machinery)

SHMAROV, Nikolay Aleksandrovich; TSETNARSKIY, I.A., otvetstvennyy redaktor;  
ARZAMASOV, N.A., redaktor izdatel'stva; KOROVENKOVA, Z.A., tekhniches-  
kiiy redaktor; PROZOROVSKAYA, V.L., tekhnicheskii redaktor

[Mechanization of mining] Mekhanizatsiya gornykh rabot. Moskva,  
Ugletekhizdat, 1957. 341 p.  
(Coal mining machinery) (MLRA 10:8)

POL, Osval'd [Pohl, Osvald]; ARZAMASOV, N.A., gornyy inzh. [translator];  
NURMUKHAMEDOVA, V.F., red.izd-vs; SHKLYAR, S.Ya., tekhn.red.

[Central control in coal mines] Dispatcherskaya sluzhba na ugol'-nykh shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornoj delu, 1959. 166 p. Translated from the Czech. (MIRA 13:3)  
(Coal mines and mining)

GARBUZ, David L'vovich; ARZAMASOV, N.A., otv. red.; PROZOROVSKAYA,  
V.L., tekhn. red.

[Mine pneumatic apparatus] Rudnichnye pnevmaticheskie ust'anovki.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961.  
359 p.

(Mining machinery—Pneumatic driving)

OSETSKIY, Vsevolod Mikhaylovich; ARZAMASOV, N.A., otv. red.; BOLDYREVA,  
Z.A., tekhn. red.

[Engineering mechanics; general mechanics and mechanical  
engineering] Tekhnicheskaya mekhanika; mekhanika obshchaya i  
mekhanika mashin. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry  
po gornomu delu, 1962. 471 p. (MIRA 15:4)  
(Mechanics) (Mechanical engineering)

REF ID: A6035959  
ACC NR: AP6035959 (A) SOURCE CODE: UR/0129/66/000/010/0067/0069

AUTHOR: Prokoshkin, D. A.; Arzamasov, V. N.; Fedoseyeva, S. N.

ORG: MVTU im. Bauman

TITLE: Calorizing of nickel by the circulation method

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 10, 1966, 67-69

TOPIC TAGS: nickel, nickel calorizing, diffusion, ~~composition~~, ~~reaction~~, ~~inhibition~~, oxidation resistance, inhibition

ABSTRACT: Specimens of electrolytic nickel were calorized in a gaseous medium continuously circulating in a closed two-reaction chamber apparatus at a pressure slightly higher than atmospheric. The gaseous medium was obtained from 99.996%-pure aluminum and dry hydrogen chloride or with pure aluminum chloride. The process was tested at 900, 950, and 1000°C for 1-5 hr. It was found that the aluminum deposition rate in vapors from Al and  $AlCl_3$  mixture was higher than that in vapors from Al and HCl, probably because of an increased content of chlorides in the medium owing to the absence of hydrogen. The weight gain increased with increasing exposure time and with increasing temperature of nickel specimens, and reached a maximum at 950°C. With further temperature increase to 1000°C, the weight gain decreased because of a decreased aluminum transfer to the nickel surface associated with a higher stability of aluminum chlorides. The diffusion layer formed in 1 or 5 hr deposition at 900°C

Card 1/2

UDC: 669.24:621.785.34.53

L 10000-67

ACC NR: AP6035959

was 50 or 100  $\mu$  thick, respectively, and consisted of the  $\alpha$ -solid solution of aluminum in nickel with a respective lattice parameter of 3.526 and 3.546 Å. The diffusion layer formed in 3 hr at 950C deposition temperature and 1000C evaporation temperature was 195  $\mu$  thick and consisted of the  $\beta$ -phase(NiAl), Ni<sub>3</sub>Al and the  $\alpha$ -solid solution of aluminum in nickel. Oxidation tests for 25 hr in air at 1000, 1100 and 1200C showed that the oxidation rate of the diffusion layer is much (65—70% at 1200C) lower than that of uncoated nickel. Orig. art. has: 5 figures.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001/ ATD PRESS: 5105

Card 2/2

ARZAMASOVA, Z. I.

"Specific Varieties of Azotobacters and Their Role in Increasing the Yield  
of Summer Wheat." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V.  
Lomonosov. (VM, 15 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

ARZAMASOVA, Z.A., kand.biologicheskikh nauk; GEL'BERGER, M.G., kand. biologicheskikh nauk; DERBENEVA-UKHOVA, V.P., prof.; ZAKHAROVA, N.F., nauchnyy sotrudnik; KIRPICHNIKOV, A.A., kand.tekhn.nauk.

Mechanized biothermic decontamination of refuse. Gig. i san.28  
no.1:13-17 Ja'63.  
(MIRA 16:7)

1. Iz Akademii kommunal'nogo khozyaystva imeni K.D.Pamfilova.  
(REFUSE AND REFUSE DISPOSAL)

*Arzamastsev A.P.*

The analysis of some pharmaceutical preparations with ion-exchanger SDV-3. A. P. Arzamastsev (Moscow Pharm. Inst.). *Avtoriz. Listok No. 3-38-0 (1968).* — The ion-exchange method was applied to the analysis of Ca salts of org. acids. The ion-exchanger used was SDV-3. Characteristics were:  $\sigma_2 = 1.1$ ; capacity (to Na) 5.4-6.0%; grain size 2-3 mm.; S content 12.4%; H<sub>2</sub>O content of air-dry material 12.5%; absorption of H<sub>2</sub>O 60% (by weight of air-dry product); add no. 240; chem. stability, colors of Ca salt NaOH; absorptive capacity for Ca ions 0.8-4.0 (1000 mg. of Ca per 100 ml. of the salt). 1 g. of dry ionite or 1000 mg. of Ca per 100 ml. of the salt. Procedure: the sample, 0.01 g., is pretreated by soaking in H<sub>2</sub>O for 4 hr., placing in column, washing with 3% HCl, then with H<sub>2</sub>O until washings are neutral to litmus. The analyzed salt, contg. 0.04-0.05 g. of salt in 10 ml., is passed at the rate of 2-3 drops/sec., followed by washing with 30 ml. H<sub>2</sub>O until neutral to litmus. In the filtrate the free acid is titrated with 0.1N NaOH (phenolphthalein). Analysis of Ca gluconate, glycerophosphate, and lactate gave results very close to those obtained by standard methods.

*A. Shadan*

ARZAMASTSEV, A.P.

Second volume of the International Pharmacopoeia; brief summary.  
Apt.delo 6 no.1:78-80 Ja-F '57. (MIRA 10:3)  
(PHARMACOPOMIAS)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

AKZAMASTSEV, A.P.

Colorimetry in the analysis of Alkaloids. Apt,dele 6 no.4:73-81  
Jl-Ag '57. (MERA 10:9)  
(COLORIMETRY) (ALKALOIDS)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASTSEV, A.P.

Some aspects of the development of pharmaceutical practice in  
Argentina. Apt.delo 6 no.6:75-77 N-D '57. (MIRA 10:12)  
(ARGENTINA--PHARMACY)

ARZAMASTSEV, A.P.

Methods for analyzing some important groups of therapeutic substances  
according to the International Pharmacopoeia (Vols. 1 and 2).  
Apt. delo 7 no.2:83-86 Mr-Ap '58. (MIRA 11:4)  
(DRUGS--ADULTERATION AND ANALYSIS)

ARZAMASTSEV, A.P.

The 1958 British Pharmacopoeia. Apt,delo 7 no.3:83-86 My-Je'58  
(MIRA 11:7)

(GREAT BRITAIN--PHARMACOPOEIAS)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASTSEV, A.P.

National Pharmacopoeia of Argentina, 1956; fourth edition.  
(MIRA 11:8)  
Apt.delo 7 no.4:86-87 J1-Ag '58  
(ARGENTINA--PHARMACOPOEIAS)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASTSEV, A.P.

Colorimetric determination of caffeine and 8-methylcaffeine  
on the basis of alkaline hydrolysis. Apt.delo 7 no.5:72-78  
S-0 '58 (NIRA 11:10)

1. Is kafedry farmatsevticheskoy khimii (sav. - prof. P.L.  
Sonov) Moskovskogo farmatsevticheskogo instituta Ministerstva  
zdravookhraneniya RSFSR.  
(CAFFEINE)

ARZAMASTSEV, A. P., Candidate Pharmaceut Sci (diss) -- "A study of the possibility of photoelectrocolorimetric determination of the methyl derivatives of xanthine". Moscow, 1959. 11 pp (First Moscow Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, No 25, 1959, 143)

ARZAMASTSEV, A.P.

Colorimetric determination of 8-methyl caffeine. Apt.delo 8  
no.2:68-72 Mr-Ap '59. (MIRA 12:5)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L.Senov)  
Moskovskogo farmatsevticheskogo instituta.  
(CAFFHINE) (COLORIMETRY)

ARZAMASTSEV, A.P.

Stabilized diazonium salts as reagents for the qualitative and quantitative determination of pharmaceutical preparations. Apt. delo 8 no.3:60-66 My-Je '59. (MIRA 12:8)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. P.L. Senov) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta.  
(DIAZONIUM COMPOUNDS)

ARZAMASTSEV, A.P.

TEN SHU-KHAO [ T'sing Shu-hao]; DZHOU TON-GUI [Dzhoy T'on-kui]; ARZAMASTSEV,  
A.P., kand.farmatsev.nauk [translator]

Rapid polarographic method of studying Artemisia santonin. Apt.delo  
(MIRA 13:4)  
8 no.6:64-67 N-D '59.

1. Iz laboratorii analiticheskoy khimii otdela farmatsevticheskoy  
khimii Instituta meditsinskikh preparatov (direktor Khu Dahenkay)  
Akademii meditsinskikh nauk Kitayskoy Narodnoy Respubliki, Pekin.  
(POLAROGRAPHY) (WORMWOOD)

CHUYEV, M.N., student V kursa; ARZAMASTSEV, A.P., assistent

Colorimetric determination of quinine hydrochloride. Apt.delo  
8 no.4:54-55 Jl-Ag '59. (MIRA 12:10)

1. Nauchnyy studencheskiy krushok knafedry farmatsevticheskoy  
khimii (zav. - prof.P.L.Senov) farmatsevticheskogo fakul'teta  
I Moskovskogo ordena Lenina meditsinskogo instituta imeni  
I.M.Sechenova.

(QUININH)

ARZAMASTSEV, A.P.

Study of the possibility of photoelectrocolorimetric determination  
of the methyl derivatives of xanthine. Med.prom. 13 no.11:63-64  
N '59. (MIRA 13:3)

(XANTHINE)

(COLORIMETRY)

ARZAMASTSEV, A.P., kand.farm.nauk

"Pharmacopoea Internationalis"; supplement. World Health Organization. Reviewed by A.P. Arzamastsev. Apt.delo 9 no.2:91-93 Mr-Ap '60. (MIRA 13:6)  
(PHARMACOPOEIA)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

SENOV, P.L.; ARZAMASTSEV, A.P.

"British Pharmaceutical Codex." Reviewed by P.L.Senov, A.P.  
Arzamastsev. Apt. depo 9 no.3:85-86 My-Je '60. (MIRA 14:3)  
(GREAT BRITAIN—PHARMACY)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASTSEV, A.P.

Study of the possibility of photoelectrocolorimetric determination  
of methyl derivatives of xanthine. Apt. delo 9 no. 5:89 S-0 '60.  
(MIRA 13:10)

(XANTHINE) (COLORIMETRY)

ARZAMASTSEV, A.P.

18th General Assembly of the International Pharmaceutical Federation  
and the 20th Congress of Pharmaceutical Sciences. Apt. delo 10  
no. 2:66-67 Mr-Ap '61. (MIRA 14:4)  
(PHARMACISTS—CONGRESSES)

ARZAMASTSEV, A.P.; YAKUTOVICH, V.G.

"Pharmaceutical chemistry" by M.M.Turkevich. Reviewed by A.P.Arzamastsev  
and V.G.IAkutovich. Apt. delo 11 no.2:86-87 Mr-Ap '62. (MIRA 15:5)  
(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

ARZAMASTSEV, D.A., kand. tekhn. nauk, dotsent

Comparison of capital investment variants with operating expenditures  
varying within the year. Izv. vys. ucheb. zav.; energ. 7 no.8:99-103  
Ag '64. (MIRA 17:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Predstavlena  
kafedroy elektricheskikh stantsiy, setey i sistem.

ARZAMASTSEV, D. A.

USSR/Engineering, Welding, Equipment Oct 51

"Determination of Initial Values in Calculation  
of Regulator for Welding With Three-Phase Arc,"

D. A. Arzamastsev, Engr, Ural Polytech Inst  
imeni S. M. Kirov

"Avtogen Delo" No 10, pp 11-13

Describes regulator, designed by Prof N. S.  
Siunov, and develops formulas for calcg volt-  
age drop in windings of choke coils. These  
values, together with min current and smallest  
practically possible air gaps, serve as initial  
data for designing 2 chokes of regulator.

202T40

ARZAMASTSEV, D.A.

AKHUN, A.I.; KAGANOV, N.L., kandidat tekhnicheskikh nauk, retsenzent;  
SERGEYEV, I.P., inzhener, retsenzent; GALAKTIONOV, A.T., kandidat  
tekhnicheskikh nauk, redaktor; ARZAMASTSEV, D.A., kandidat tekhnicheskikh nauk, redaktor; STEPANOV, V.G., kandidat tekhnicheskikh nauk, redaktor. SMOS

[Contact electric-welding machines] Kontaktnye elektrosvarochnye mashiny.  
Sverdlovsk, Gos. nauchno-tekh. izd-vo mashinostroit.i sudostroit.  
lit-ry [Uralo-Sibirskoe otd-nie], 1953. 310 p. (MIRA 7:6)

1. Kafedra svarki MVTU imeni N.E.Baumana (for Kaganov, Sergeyev). 2.  
Uralmashzvod (for Stepanov).  
(Electric welding)

1. SYUNOV, N.S.; ARZAMASTSEV, D.A.
2. USSR (600)
4. Electric Welding
7. Contactless regulators for welding with a three-phase arc, Prof. N.S. Syunov, D.A. Arzamastsev, Avtob.delo 24 no. 3, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

ARZAMASTSEV, D. A.

USER! Engineering - Welding apparatus

Card 1/1 Pub. 11 - 3/8

Authors : Siunov, N. S., Arzamastsev, D. A.

Title : Principles of designing of control apparatus for manual welding  
with a three-phase arc

Periodical : Avtom. svor. 8/1, 25-58, Jan-Feb 1955

Abstract : The design, assembly and operation of the ZRST control apparatus  
for manual welding of metal with a three-phase arc, are described.  
Formulas are given for calculating phase control units and  
impedance coils. Eight USSR references (1948-1953). Illustrations;  
diagrams; drawings.

Institution : The Ural S. M. Kirov Polytechnical Institute

Submitted : July 25, 1954

ARZAMASTSEV, D.A., kand. tekhn. nauk, dots.

Determining diameters of wire for overhead lines which are most  
advantageous from the economical point of view. Trudy Ural politekh.  
inst. no.90:112-118 '58. (MIRA 13:2)  
(Electric lines, Overhead)

ARZAMASTSEV, D.A., kand. tekhn. nauk, dots.

Economic comparisions of various versions of an electric net.  
Trudy Ural. politekh. inst. no.90:119-132 '58. (MIRA 13:2)  
(Electric networks)

ARZAMASTSEV, D.A., dotsent, kand. tekhn. nauk; KRICHENOVA, I.A., dotsent,  
—karid. tekhn. nauk; RUDNITSKIY, M.P., assistant

Some problems in studying asynchronous connections and resynchroni-  
zation regimes in power systems. Sbor. nauch. trud. Ural. politekh.  
inst. no.122:216-225 '61. (MIRA 17:12)

ARZAMASTSEV, D.A., kand.tekhn.nauk, dotsnet

Determination of the cost of power losses in long-distance a.c.  
power transmission lines. Izv. vys. ucheb. zav.; energ. 5  
no.7:119-121 Jl '62. (MIRA 15:7)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.  
Predstavlena kafedroy elektricheskikh stantsiy, setey i sistem.  
(Electric power distribution) (Electric lines--Overhead)

ARZAMASTSEV, D.A., kand.tekhn.nauk (Sverdlovsk)

Evaluation of expenditures on electric power in the design of the  
electrical sections of industrial enterprises. Elektrichesstvo  
no.11:88-90 N '62. (MIRA 15:11)  
(Electric power distribution--Accounting)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASTSERV, D.A., kand.tekhn.nauk (Sverdlovsk)

Forms of the conditions of efficient operation of electric power  
systems with thermal power plants. Elektrичество no.4:5-9 Ap  
'64. (MIRA 17:4)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASTSEV, Dmitriy Aleksandrovich, kand.tekhn.nauk, docent; RUDNITSKIY,  
Mstislav Petrovich, assistant

Use of elliptical functions in the analysis of the dynamic  
stability of synchronous machines. Izv.vys.ucheb.zav.; elektromekh.  
8 no.38291-299 '65. (MIRA 18:5)

1. Zaveduyushchiy kafedroy elektricheskikh stantsiy, setey i  
sistem Ural'skogo politekhnicheskogo instituta (for Arzamastsev).
2. Kafedra elektricheskikh stantsiy, setey i sistem Ural'skogo  
politekhnicheskogo instituta (for Rudnitskiy).

ARGAMASTSEV, N.A., kand. nauk; RUBNITSKII, M.P., inzh.; SKLYAROV,  
Yu.S., inzh.

Selection of optimal wire sizes in power network design. Elektri-  
cheskoe stroyenie no.8:44-48 Ag '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

L 2576-66

ACCESSION NR: AP5019291

UR/0143/65/000/007/0007/0012

621.316.11:518.5

33

AUTHOR: Arzamastsev, D. A. (Candidate of technical sciences, Docent); Bartolomey, P. I. (Engineer) 32  
B

TITLE: Setting up and solving network-mesh equations on digital computers

SOURCE: IVUZ. Energetika, no. 7, 1965, 7-12

TOPIC TAGS: nonlinear differential equation; digital computer

ABSTRACT: Techniques are developed for simplifying the process of setting up such differential equations which could be conveniently solved on "Ural-1" and "Ural-2" computers. Mesh equations separately representing real and imaginary voltage components can be solved by a method of group iteration, i.e., by substituting a set of linear differential equations for the initial set of nonlinear equations. A 3-mesh network with and without node-connected loads is considered. The initial closed-mesh network is transformed into an open "tree"

Card 1/2

L 2576-66

ACCESSION NR: AP5019291

network which is described by a square nonsingular D-submatrix. By combining it with the node-current submatrices, a unit submatrix and a 0-submatrix, a resulting transformation M-matrix is obtained. The latter matrix, an impedance diagonal matrix Z and the mesh matrix  $\Gamma$ , serve for setting up the final mesh equations. The method permitted finding the power-flow distribution in a 12-mesh network, on a "Ural-2" computer, in 6 min. Orig. art. has: 4 figures and 24 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirov  
(Ural Polytechnic Institute)

SUBMITTER: 27Jun64

ENCL: 00

SUB CODE: MA, DP

NO REF Sov: 006

OTHER: 001

Card 2/2

ARZAMASTEV, I. M.

PROBLEMS AND PROPERTIES. 1941

CA

The strength of ingot molds in the A. K. Serov works.  
I. G. Arzamastsev, I. M. Bosyakov and N. I. Bezotosui  
*Izdat. Met.*, 9, No. 9, 19-24(1940); *Chem. Zentr.*, 1941, II,  
948c. Strength tests on cast iron molds showed that in-  
creased Mn content in the molds gave 1.5-2-fold greater  
durability. The following compn. is suggested: C 3.7  
3.8, Mn 1.4-1.6, Si 1.6-1.7, with P about 0.15 and S  
0.03%. Use of Mn-bearing pig Fe or sogenfeisen is recom-  
mended for making such molds. To make the cast Fe  
with finely divided graphite, heating to 1300-1320° is  
proposed, with a pouring temp. of 1170-1200°. A. B.

7

ASA-SCA-METALLURGICAL LITERATURE CLASSIFICATION

12/1/1986 12:00:00 AM

CLASSIFICATION	SEARCHED	INDEXED	SERIALIZED	FILED
100-194	Y	Y	Y	Y
200-299	Y	Y	Y	Y
300-399	Y	Y	Y	Y
400-499	Y	Y	Y	Y
500-599	Y	Y	Y	Y
600-699	Y	Y	Y	Y
700-799	Y	Y	Y	Y
800-899	Y	Y	Y	Y
900-999	Y	Y	Y	Y

SRZAMANTSEV, I.G.

CA

performed and receives more

Cr-Mo-Al steel from basic open-hearth furnaces. I.  
G. Arzamantsev and V. I. Palant. *Nad N. S. I. I.* No.  
7 8, 15-17(1941). The steel 38 KhMVA, formerly pro-  
duced by the acid process, contains C 0.36-0.42, Mn 0.35  
0.40, Si 0.17-0.37, P < 0.015, S < 0.030, Cr 1.35-1.65,  
Mo 0.35-0.60 and Ni 0.15%. No difficulties were ex-  
perienced in the basic process. Care must be taken to  
avoid the loss of Al. The addition of Al to incompletely de-  
oxidized steel causes a considerable loss of Al; the Al<sub>2</sub>O<sub>3</sub>  
formed does not melt readily, the melt thickens and part  
of the oxidation products become entrained in the melt.  
Heating the melt helps to eliminate part of the impurities  
but causes porosity. The main reason for internal tears  
is too rapid cooling; this can be avoided by soaking the  
ingots at not less than 700°. There was also observed some  
liquefaction inside the ingot, apparently caused by gas satu-  
ration. Completely sound ingots were obtained by properly regu-  
lating the teeming and the temp. M. Busch

9

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

130W SYNTHEZ		130W SYNTHEZ		130W SYNTHEZ	
1	2	3	4	5	6
M	D	W	A	H	J

## CARZAMASTEV, I. G.

## PROCESSES AND PROPERTIES INDEX

Production of flakeless structural high-alloyed steel  
 A. A. Rastorguev and I. G. Aramastev. *Nefi* 3, No.  
 9-10, 47-54 (1963).-- It was observed in a large no. of instances that flakes developed in steel even though the cooling period was long. The flakes developed after a considerable time and then were passed the control testing. This condition occurred quite frequently in varieties of steels made in open hearths which formerly were made in coke furnaces. The purpose of this investigation was to work out a method of cooling and annealing after rolling which would insure a flakeless steel and at the same time shorten the process. Both perlite and martensitic steels were investigated. To attain the two mentioned aims steels having a perlitic transformation should be cooled slowly to somewhat below  $A_1$ . Steels having martensitic transformation should be treated similarly to below  $A_1'$ . In either case, immediately after the cooling, the steel should be annealed. For martensitic steel cooled in soaking pits or gravel beds and then annealed in furnaces, 0 hrs. may elapse between the two operations. In plants having furnaces for direct treating of steel, the latter is placed in such furnaces, kept at a temp. below  $A_1$  or  $A_1'$  and kept there long enough for the steel to go through the resp. point. The steel is then transferred into a chamber kept at the annealing temp., kept there for the requisite time and then discharged into the air.

M. Hesch

Evaluation B-58884

## ASME 1964 METALLURGICAL LITERATURE CLASSIFICATION

JUNE 1964

SADOVSKIY, V.D., professor, doktor tekhnicheskikh nauk; MALYSHEV, K.A.,  
kandidat tekhnicheskikh nauk; POLYAKOVA, A.M., inzhener; AVINYEVA, V.D.,  
inzhener; ARZAMASTSEV, I.G., inzhener; ISUPOV, V.P., inzhener

Story fracture in structural alloyed steel. Stal' 15 no.6:545-548  
Jg '55.  
(MIRA 8:8)

1. Institut fiziki metallov Ural'skogo filiala Akademii nauk SSSR.
2. Metallurgicheskiy zavod imeni Serova.  
(Steel, Structural--Testing)

ARZAMASTSEV, K. D.

Radio in Education

Apiculture information on the radio, Pchelovodstvo, No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953/2 Uncl.

1. ARZAMASTSEV, P.
2. USSR (6CO)
4. Moving-Picture Projection
7. How I shall utilize laborsaving suggestions which appeared in the periodical "Kinomekhanik." Kinomekhanik, No. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ARZAMASTSIV, P.

Most important tasks in preparing buildings and equipment for state  
grain procurement and purchases in 1955. Muk.-elev.prom.21 no.1:1-3  
Ja '55. (MLRA 8:5)

1. Zamestitel' ministra zagotovok Soyusa SSR.  
(Grain trade)

ARZAMASTSEV, P.

For exemplary technical preparation for the procurement of the  
new grain crop. Muk.-elev.prom.22 no.2:3-5 P '56. (MLRA 9:6)

1.Zamestitel' ministra zagotovok.  
(Grain trade)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZANASTSEV, P.S.

Copy milling machines following designs. Stan. i instr. 28 no. 5:  
3-6 My '57.  
(Milling machines) (MLRA 10:6)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

PETROV, I.I., doktor tekhn.nauk, prof.; SHCHUKIN, A.I., kand.tekhn.nauk,  
dots.; ZUSMAN, V.G., kand.tekhn.nauk, dots.; ARZAMASTSEV, P.S.,  
kand.tekhn.nauk, dots.; PANTYUSHOV, G.S., kand.tekhn.nauk;  
NEVRAYEV, V.Yu., kand.tekhn.nauk; POPOV, G.A., dots.

"Principles of electric driving" by A.T. Golovan. Reviewed by  
I.I. Petrov and others. Elektrichestvo no.8:93-95 Ag '60.

(MIRA 13:8)

(Electric driving)  
(Golovan, A.T.)

ARZAMASTSEV, V.F., inzh.; KOZHEVNIKOV, M.N., inzh.

Mechanization of plowshare hardening. Mekh. i avtom. proizv. 19  
no.2:19 F '65. (MIRA 18:3)

ARZAMAS'YEV, Ye.I.; UMRIKHIN, P.Y.

Melting process in basic open-hearth furnaces with use of  
low-grade manganese ore. Izv. vys. uchab. zav.; chern.  
met. 6 no.2:58-67 '63. (MIRA #6:3)

1. Ural'skiy politekhnicheskij institut.  
(Open-hearth process)  
(Manganese ores)

ARZAMASTSEV, Ye.I.; UMRIKHIN, P.V.

Role of manganese oxides in the slag formation process in a basic open-hearth furnace. Izv. vys. ucheb. zav.; chern. met. 6 no.6; 35-42 '63. (MIRA 16:8)

1. Ural'skiy politekhnicheskiy institut.  
(Open-hearth furnaces) (Slag) (Manganese oxide)

VOLKOV, S.S.; UMRIKHIN, P.V.; ARZAMASTSEV, Ye.I.; LUPEYKO, V.

Using manganese limestone in oxygen blowing. Izv. vys. usheb.  
zav.; chern. met. 8 no.10:52-58 '65. (MIRA 18:9)

1. Ural'skiy politekhnicheskij institut.

L 59555-65

REF ID: A657172

TMNSK, KZ, ZN Metallurgiya, Ats. 301200

ATTN: [redacted]

CITED SOURCE: Uch. zap. Tsentr. n-ta po voprosam po poljotekhnike  
44-45

"APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102320002-1

I SOURCE

ACCOMPLISHMENT OF GOALS

THEIR ACCOMPLISHMENT OF GOALS

COMPOUND OBTAINED FROM SOURCE

APPROVED FOR RELEASE: 06/05/2000 CIA-RDP86-00513R000102320002-1"

3(5)

SOV/26-59-5-40/47

AUTHOR: Arzamastseva, L.V. (Moscow)

TITLE: Korean Geographers About Their Own Country

PERIODICAL: Priroda, 1959, Nr 5, pp 120 ~ 121 (USSR)

ABSTRACT: The author reviews the book by Pak Tkhe Khun and  
Ten Khek entitled "Ocherk geografii Korei" (An Out-  
line of Korean Geography), Pkhen'yan, 1957, 130 pp.

Card 1/1.

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1

ARZAMASTSEVA, L.V.

Important work on the soils of Yugoslavia. Izv. AN SSSR. Ser.  
geog. no.3:119-121 My-Je '65.  
(MIRA 18:6)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102320002-1"

ARZAMASTSEVA, L.V.

Pond fish culture in Czechoslovakia. Priroda 53 no.6:85-88 '64.  
1. Institut' geografii AN SSSR, Moskva. (MIRA 17:6)

ARZAMOV, Andrey Ivanovich; KUZNETSOV, Ivan Fedorovich, inzh.-  
issledovatel'; MAKAROVA, E.A., red.

[Trade-union work in a communist labor workshop] Profsoiuz-  
naia rabota v tsekhe kommunisticheskogo truda. Moskva, Prof-  
izdat, 1965. 94 p.  
(MIRA 18:8)

1. Sekretar' Vostochno-Kazakhstanskogo oblastnogo komiteta  
profsoyuza rabochikh metallurgicheskoy promyshlennosti (for  
Arzamov). 2. Ust'-Kamenoporskiy svintsovo-tsinkovyy kombinat  
imeni V.I.Lenina (for Kuznetsov).

ARZANTSHEV, V. (g.Kuybyshov)

ARS-2 a.c. radio transmitter-receiver. Pozh.delo 6  
no.8:23-24 Ag '60. (MIRA 13:8)  
(Radio, Shortwave--Transmitters and transmission)  
(Radio, Shortwave--Receivers and reception)

ARZENSEK, A., inz.

Building of a plant for the purification of waste water at the  
Sostanj Leather Factory. Nova proizv 13 no.2:158-164 '62.

A37303A, 1.

Experience in building and operating Sheet Rolling Mill 1400. p. 200.  
(NOVA PROIZVODNJA, Vol. 5, no. 3/4, Sept. 1954. Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, No. 4,  
Apr 1955, Uncl.

MIKHALEV, G.P.; ARZHAKOV, N.D.

Some geological characteristics of Lower Jurassic diamond-bearing sediments  
in the "Mir" kimberlite pipe region. Nauch.sooob. IAFAN SSSR no.7:113-119  
'62. (MIRA 16:3)

(Yakutia--Kimberlite)

AUTHORS: Igonin, L. A., Ovchinnikov, Yu. V., Arzhakov, S. A. SOV/20-120-5-37/67

TITLE: The Influence of High Pressures on the Autohesion of High Polymers (Vliyaniye vysokikh davleniy na samosliyanie (autogeziyu) vysokopolimerov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 5, pp.1062-1064 (USSR)

ABSTRACT: This is a study of the influence of temperature and of pressure upon the autohesion of some powdery thermoulastic substances. The conditions of the formation of a transparent sample when powdery substances are pressed in a cylindrical heated die were investigated. The process of pressing is described. At temperatures not exceeding 130° only a partial coalescence of the grains of the polymer takes place. Only at higher temperatures the strength of the samples reaches the cohesion strength of the material. When non-transparent samples are obtained by a pressing of the polymer powder no autohesion of the grains occurred. The autohesion of polyvinyl chloride begins at temperatures which are 5 - 10° above the vitrification temperature. The limit between trans-

Card 1/3

SOV/2o-12o-5-37/6:  
The Influence of High Pressures on the Autohesion of High Polymers

parent and non-transparent samples is in the interval of 100-150 kg/cm<sup>2</sup>. At a constant temperature and at a simultaneous pressure rise at first non-transparent samples are produced. This range corresponds to the growth of the total contact surface of the grains with increasing pressure. This is the necessary condition for the occurrence of autohesion. At a further increase of pressure transparent samples are produced, that is to say, the boundaries between the grains disappear because of the complete or partial coalescence. A complete coalescence occurs above 130°. The dependence of the vitrification temperature of polyvinyl chloride upon the pressure as shown in this paper was also observed in a few other polymers. A diagram illustrates the respective curves for polyvinyl chloride, polystyrene and polymethyl methacrylate. There are 4 figures and 5 references, 4 of which are Soviet.

PRESENTED: February 25, 1958, by V. A. Kargin, Member, Academy of Sciences, USSR

Card 2/3